REMARKS

Claims 1-9 were rejected under 35 U.S.C. 102(e) as being anticipated by Guedalia (U.S. Patent No. 6,356,283). Claims 1-9 are currently amended. Claims 10-120 are added. Thus, claims 1-120 are pending. Applicant respectfully submits that pending claims 1-120 recite limitations not found in Guedalia.

Guedalia concerns a client/server architecture for interactive viewing of image data. Specifically, Guedalia deals with large images, where the full resolution image cannot be downloaded over the Internet quickly, and also may not fit within a viewing window on a computer monitor. Instead the user can view *only a portion of the image* at any given instant, and inspect the image by interactively manipulating it so that various portions, possibly at various resolutions, are displayed in the view window in response to user commands. See, for example, col. 16, lines 34-43, of Guedalia.

The server computer of Guedalia does not render the web page into an image, where the web page contains *text and graphics,* and where the server retrieves the web page from the Internet in response to the request from the portable device. The client computer of Guedalia receives from the server computer the html document, which includes a window for an image. The *client computer* renders the html document for display. However, such an arrangement is substantially different from an arrangement where the server computer renders the web page, including text, graphics, java and other information defining the web page, into an image for the client so that the client does not need the capability to format or render a web page from the information including text and graphics.

In one embodiment of the present invention, the portable device has the capability to scroll the entire image of the web page, which is rendered by the host computer for the

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portable device. The entire image of the web page can be scrolled under the exclusive control of the device after the entire image of the web page is downloaded from the host computer. However, in one embodiment, not the entire image is automatically downloaded from the host computer to the device. For example, the user of the portable device may not want to view the entire image. Automatically downloading the portions of the image that the user may want to see while not downloading the other potions can save the communication cost and time (e.g., air time and server bandwidth are both saved). For example, when a web page is first visited, only a portion of the rendered image of the web page that is to be displayed in the device browser window is downloaded; and, other portions of the rendered image are downloaded when they are scrolled into the browser window. Information about the portions that have been downloaded is tracked so that each portion of the image is downloaded only once. The portions that have been downloaded can be scrolled repeatedly into and out of the device browser window on the device under exclusive control of the device, without having to repeatedly download the same image data. In one embodiment, the portion of the image that has not been downloaded is first displayed in a white color before it is downloaded and displayed (see, for example, lines 12-20 on page 9 of the specification of the present application). Further, in one embodiment, information about the downloaded portions are stored so that image portions of frequently visited areas of the visited web pages can be *automatically* downloaded when the web pages are revisited; thus, when the user scrolls between these areas, the scrolling can be under the exclusive control of the device since the image data for these areas are already *automatically* downloaded onto the device. In one embodiment, when the user returns to a web page, the last visited area of a web page (e.g., a bottom portion of the image of the web page) is automatically shown in the device window.

The pending independent claims recite limitations and features not found in Guedalia. For example, claim 1 recites:

1.   (currently amended) A system for viewing Internet content, the system comprising:

a portable device; and

a host computer coupled to the portable device through a communication link;

wherein the host computer receives information about a web page from outside and <u>renders said information into an image</u> of the web page in memory of the host computer in response to a request from the portable device, <u>said information including text and graphics</u>;

wherein a software program running on the device implements a device browser window with icons which are fixed with respect to a device browser window;

wherein the host computer reduces the color depth of a portion of the image of the web page which portion is proportional to the size of the device browser window, digitally compresses and transmits the portion of the image of the web page to the device, where the portion of the image of the web page is decompressed and stored into a display memory on the device for display;

wherein the device enables a user to scroll the image of the web page inside the device browser window and sends a message to the

host computer informing the host computer scrolling

operations occurred in the device browser; and

wherein when a part of the image of the web page is brought into the

device browser window but has not been sent to the device, the

part of the image of the web page is sent from the host

computer to the device.

The server computer of Guedalia does not render web pages including text and graphics into an image for the client computer. The client computer of Guedalia renders the html document for display. Also, claims 10 and 22 recite:

10. (new) A method to view Internet content, the method comprising:

sending from a device to a remote server a first request for a first web

page;

automatically receiving at the device from the remote server in a

compressed format <u>a first portion of a first image of the entire</u>

<u>first web page</u>;

displaying, on a display of the device, at least a part of the first portion

of the first image of the entire first web page;

receiving, at the device, user input to display <u>a second portion of the</u>

<u>first image of the entire first web page</u>;

transmitting, from the device to the remote server, data indicating the

user input to display the second portion of the first image of the

entire first web page;

receiving at the device from the remote server in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the remote server to the device;

displaying the second portion of the first image of the entire first web page on the display of the device;

wherein the first and second portions of the first image of the entire first web page are rendered at the remote server from information defining the first web page; and

wherein at least one of the first and second portions of the first image is rendered at the remote server from information including text.

22.   (new) A method to serve Internet content, the method comprising:

receiving at a server from a remote device a first request for a first web page;

rendering a first portion of a first image of the entire first web page from information defining the first web page;

selectively transmitting from the server to the remote device in a compressed format the first portion of the first image of the entire first web page for display on a display of the remote device;

receiving, at the server from the remote device, data indicating user

input to display a second portion of the first image of the entire

first web page on the remote device;

rendering the second portion of the first image of the entire first web

page from the information defining the first web page;

responsive to the data indicating the user input to display the second

portion, transmitting from the server to the remote device in a

compressed format the second portion of the first image of the

entire first web page only when the second portion of the first

image has not been transmitted from the server to the remote

device;

wherein at least one of the first and second portions of the first image

is rendered at the server from information including text.

Note that the image of Guedalia that is sent from the server computer to the client computer is not rendered *at the server computer* from information defining the web page that includes text.

Further, the Guedalia does not have a description of storing the information of visited portions of web pages so that, when the user comes back to one of these web pages, the visited portions of the rendered image of the web page can be automatically downloaded from the server computer to the client computer or the last displayed area of the web page can be displayed first in the browser window. Guedalia discloses the caching of image data at the client computer and the server computer. However, Guedalia does not show a method of display the last displayed portion of the web page *first* when the web page is revisited. For example, claim 5 recites:

5. (currently amended) A system as claimed in claim 1 wherein information about the last area displayed in the device browser window is stored in memory on the device for the web page, wherein upon returning to the web page, said last area displayed appears first in the device browser window.

Further, claim 9 recites:

9. (currently amended) A system as in claim 1 wherein:

web pages and corresponding areas frequently viewed by the user are stored on the host computer such that, when the address of a frequently viewed web page is entered on the device, the device sends a message containing the web page address to the host computer, which recognizes this frequently viewed web page and automatically sends corresponding areas frequently viewed to the device.

Col. 17, lines 49-66, of Guedalia discloses that the server computer can use its local cache to store image data that can be repeatedly requested. However, there is no indication in Guedalia that these cached image data are *automatically* sent from the server computer to the client computer when the web page is revisited.

Further, in Guedalia, the viewing window defined by the html document sent from the server computer to the client computer displays only the image that is specified by the html document. A user cannot scroll to a portion that is not a part of the image specified by the html document but is a part of the original digital image at the server. There is no

description of displaying a predetermined color to represent the portion of the image that is scrolled to but have not yet been downloaded from the server. However, for example, claims 13 and 14 recite:

13.   (new) The method of claim 12, wherein the user input causes a visible part of the first portion being shown on the display of the device together with the second portion; and, the visible part of the first portion is displayed while the device is receiving the second portion from the remote server.

14.   (new) The method of claim 13, wherein before the second portion is received at the device, a predetermined color is display to represent the second portion of the image.

Further, claim 73 recites:

73.   (new) A method to view Internet content, the method comprising:

sending from a device to a remote server a request for a web page;

receiving at the device from the remote server in a compressed format at least a portion of an image of the entire web page, <u>the portion of the image being rendered at the remote server from information including text</u>;

selectively displaying the portion of the image on a display of the device according to a user input to the device; and

automatically displaying the portion of the image on the display of the
device in response to a user input to return to the web page.

Guedalia does not have a description that a selected portion of the image of the entire web
page, which is rendered from information including text at the server, is automatically
displayed when returning to the web page. Claim 78 recites:

78.   (new) A method to serve Internet content, the method comprising:
       storing on a server information about a plurality of frequently visited
              locations of a web page for a remote device, the plurality of
              frequently visited locations being identified through user inputs
              to the remote device;
       receiving at the server from the remote device a request for the web
              page;
       rendering at least a portion of an image of the entire web page from
              information defining the web page, the portion of the image
              including the plurality of frequently visited locations;
       transmitting in a compressed format the portion of the image from the
              server to the remote device in response to the request for the
              web page.

Guedalia does not disclose that a portion of the image of the entire web page, which
portion includes the frequently visited locations identified through user inputs to the
remote device, is sent in response to the request for the web page. Claim 83 recites:

83.   (new) A method to view Internet content, the method comprising:

sending from a device to a remote server a request for a web page;

receiving at the device from the remote server in a compressed format

a plurality of portions of an image of the entire web page, <u>the plurality of portions of the image being rendered at the remote server from information including text</u>; and

storing on the device the plurality of portions of the image;

receiving a user input to the device to display an area of the image; and

displaying the area of the image according to the plurality of portions

of the image stored on the device.

In Guedalia, the portion of the image sent to the client computer is not rendered from information including text at the server.

Other amended or newly added dependent claims further recite additional limitations and features. Thus, at least for the above reasons, Guedalia does not anticipate the currently pending claims 1-120.

Please charge any shortages or credit any overages to Deposit Account No. 02-2666. Furthermore, if an extension is required, Applicant hereby requests such extension.

Respectfully submitted,

Dated: /o/3o , 2003
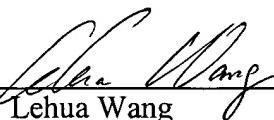
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